

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/783,025	SUWA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Terry L. Englund	2816	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amdt/Dwgs (Dec 23, 2005) and Interview (Jan 4, 2006).
2. ☒ The allowed claim(s) is/are 3 (now renumbered as claim 1).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

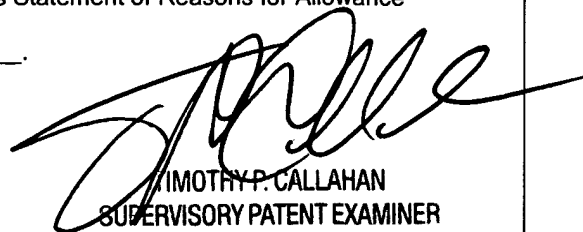
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date <u>01042006</u>.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|---|--|

  
TIMOTHY P. CALLAHAN  
SUPERVISORY PATENT EXAMINER

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to the applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with the applicants' representative Ramyar M. Farid (Reg. No. 46,692) on Jan 4, 2006.

The application has been amended as follows:

Claim 3, line 4: added a comma after "transistor"; and

Claims 5-13: cancelled in their entirety.

Claim 3 was amended to correct an inadvertent oversight by the examiner (i.e. not previously noted, and identified within a previous Office Action), thus minimizing possible confusion with respect to the phrase "a charge transfer transistor and a plurality of boosting capacitors connected in parallel" being interpreted as implying the capacitors are connected in parallel with the transistor. [For example, as shown in the applicants' Fig. 1, capacitors CP, CS1, CSn-1, and CSn are (or can be) coupled in parallel by a corresponding connection switching circuit (e.g. 13n), but charge transfer transistor M11 is not coupled in parallel with any of those capacitors. Also, none of the applicants' other figures shows even a single capacitor coupled in parallel with a charge transfer transistor.] Previously withdrawn claims 5-13 were cancelled. [None of those claims required the specific limitations (e.g. a connection switching circuit for switching connections to the plurality of (parallel) boosting capacitors) as recited within original

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independent claim 1, now cancelled. The Response to Restriction Requirement submitted on Jul 26, 2005 had elected Species I, which included only original claims 1-4.]

### **RESPONSE TO AMENDMENT/DRAWINGS**

The amendment and drawings submitted on Dec 23, 2005 have been reviewed and considered with the following results:

The examiner has approved the replacement sheets for Figs. 1, 4, and 6. They overcame the drawing objections described in the previous Office Action, which have now been withdrawn.

The amended paragraphs overcame the various objections to the disclosure, which have also been withdrawn.

The cancellation of claims 1-2, and 4 rendered their respective objection(s) moot.

Amended claim 3, which had been previously rejected only for carrying over the 35 U.S.C. 112 type rejection from claim 1, has now been rewritten as an independent claim. The 35 U.S.C. 112 type rejection, corresponding to claim 1's "the control signal" rejection, had been corrected in rewritten claim 3. Although an oversight was noted within claim 3 when it was carefully reconsidered, that concern was addressed/corrected by the Examiner's Amendment described above.

To place the present application into condition for allowance, the previously withdrawn claims 5-13 were cancelled by the Examiner's Amendment.

Therefore, there is no known objection, rejection, or withdrawn claims remaining within the present application.

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

None of the prior art references reviewed and considered shows or discloses all of the specific limitations recited within independent claim 3. More specifically, none of the references shows/discloses a power supply voltage detection control section that detects a power supply voltage, and controls the output of the boosted voltage detection control section, wherein the boosted voltage detection control section's output is understood to correspond to the control signal used with the connection switching circuit for switching connections to the plurality of (parallel) boosting capacitors. Since there is no motivation to modify or combine any prior art reference(s) to ensure all the limitations recited within claim 3 are met, the claim is deemed patentably distinct over the prior art of record.

Claim 3 is allowed, and has been renumbered as claim 1. The renumbering takes into account the cancellation of claims 1-2, and 4-13.

Any comments considered necessary by the applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication from the examiner should be directed to Terry L. Englund whose telephone number is (571) 272-1743. The examiner can normally be reached Monday-Friday from 7 AM to 3 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached on (571) 272-1740.

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The new central official fax number is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1562.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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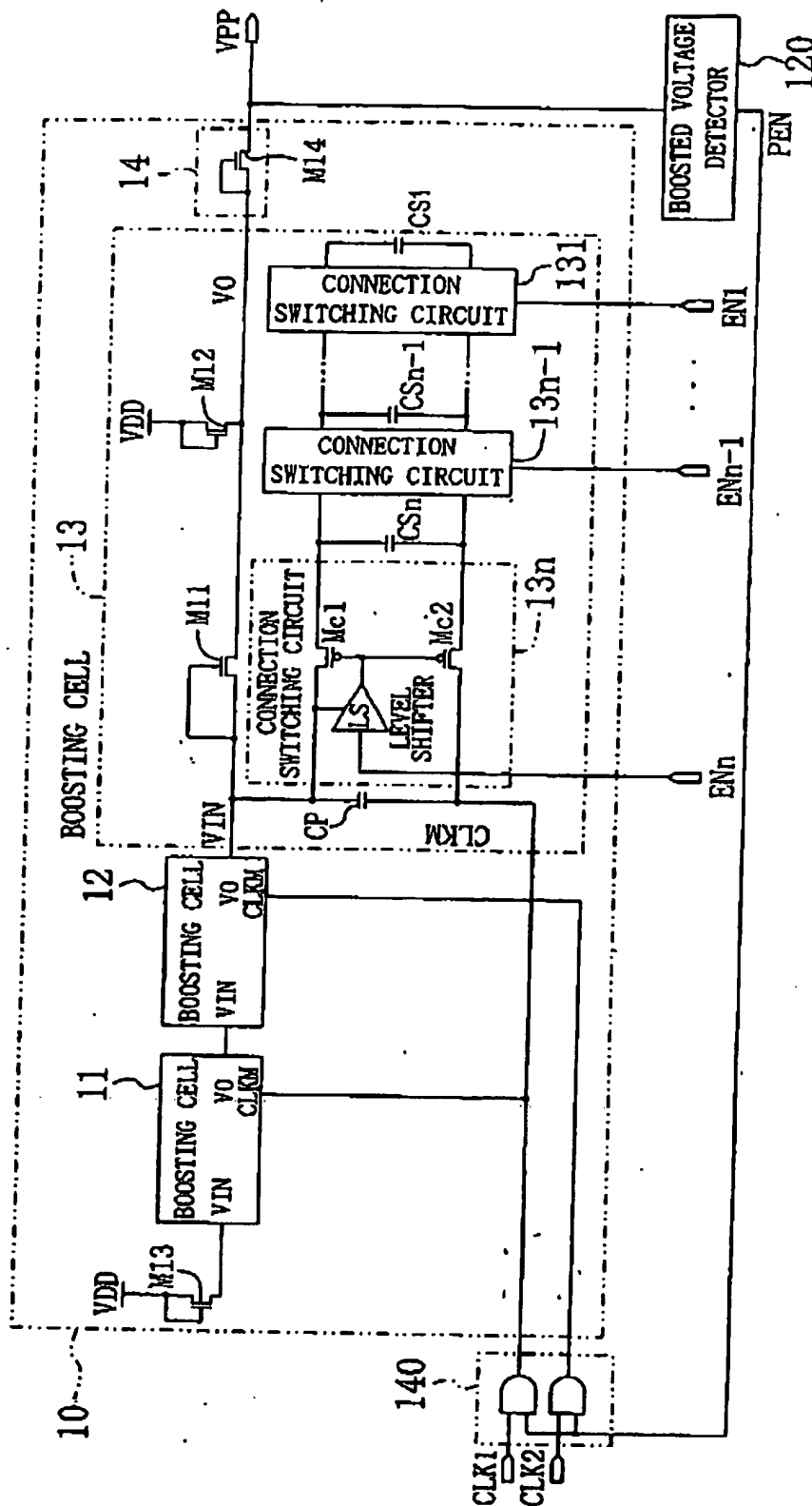
Terry L. Englund

4 January 2006

Replacement Sheets  
Title: BOOSTER CIRCUIT  
Any. Docket No.: 60188-781  
Inventor(s): Hisashi SUWA et al.  
Serial No.: 10/783,025

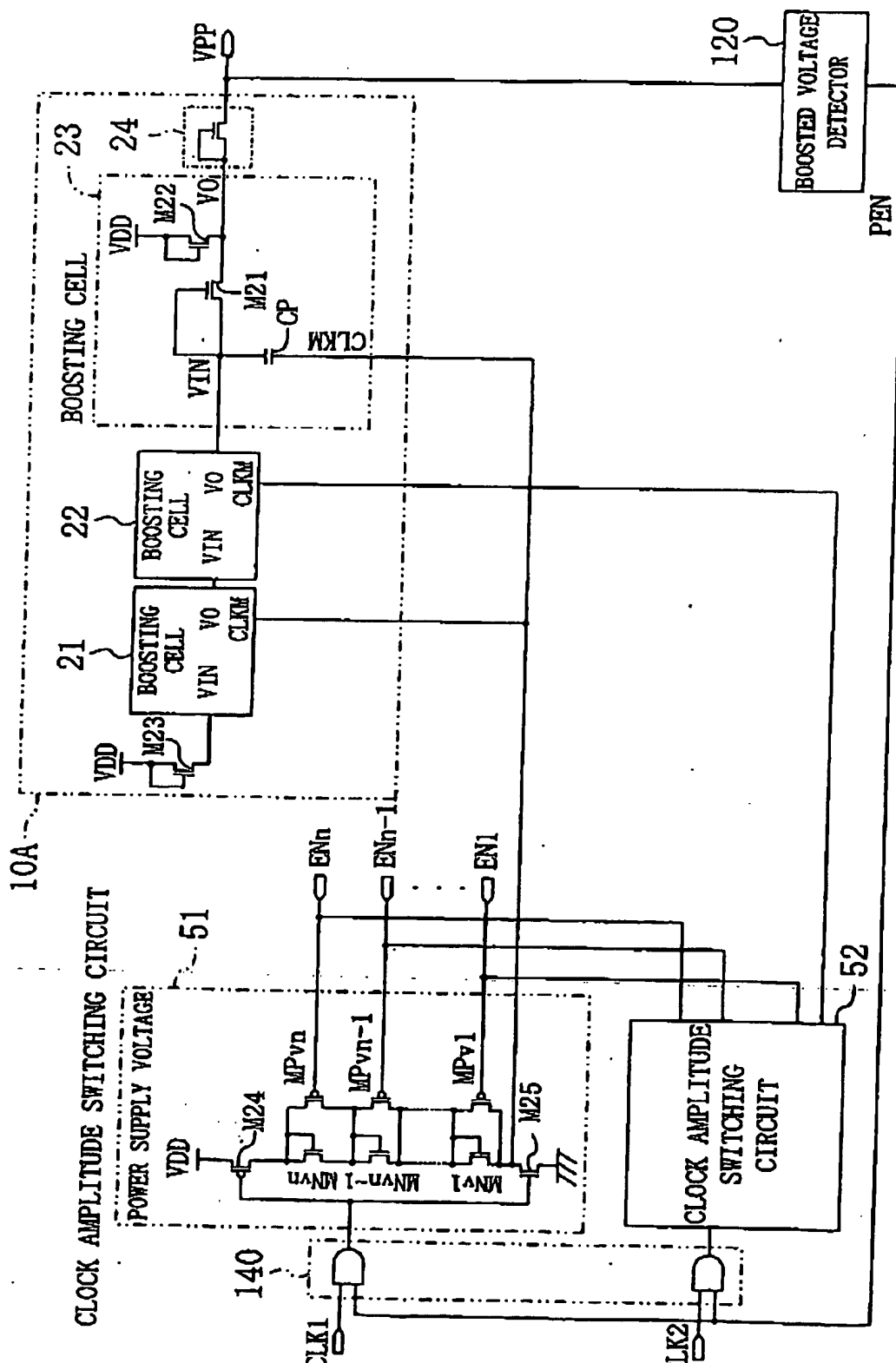
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FIG. 1



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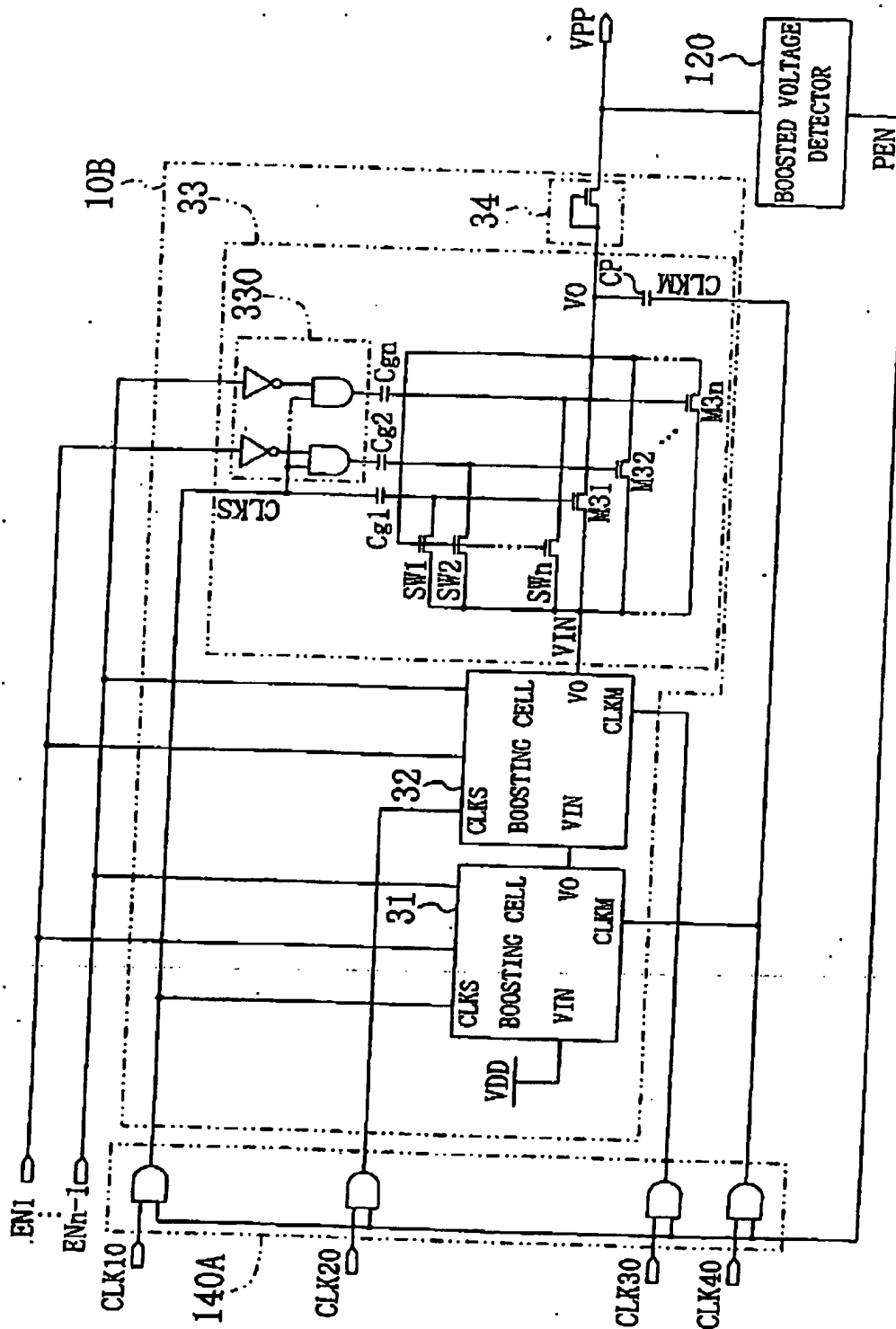
FIG. 4



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FIG. 6



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McDermott Will Emery  
Replacement Sheets  
Title: BOOSTER CIRCUIT  
Atty. Docket No.: 60188-781  
Inventor(s): Hisashi SUWA et al.  
Serial No.: 10/783,025

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